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WATER SUPPLY OUTLOOK FOR IDAHO

U. S. DEFT. OF ACMOUNTURE NATIONAL AGRICULTURAL LINEARY

FEB 2.0 1969

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE. and

IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.



TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80521
Idaho	P. O. Box 38, Boise, Idaho 83707
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

WATER SUPPLY OUTLOOK FOR IDAHO

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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WATER SUPPLY OUTLOOK for IDAHO







GENERAL SUMMARY FOR FEBRUARY 1, 1969

Snowfall during January established new records at both high and low elevations. The heavy storms produced unprecedented snow depths on the valley floor and set a few new records at high elevations as well. During some of the storms, rain fell above 8,000 feet which increased the density of the snowpack far beyond normal for this time of the year. The combination of extreme snow depth at valley elevations and saturated soil creates an unprecedented hazard from high water in areas not usually concerned.

The fact that this snowpack exists over wide valley areas increased the possibility for pollution of wells and other health problems ordinarily not possible. Only once in from 50 to 100 years can such a combination of characteristics create such a hazard. While the weather during the melt is a prime factor in how great the hazard is, it is so late in the season that the very best of melt conditions can be expected to produce problems in many areas at the valley elevations. This extreme low level snowpack can be expected to reach its maximum rate of melt in the next two to four weeks.

The high elevation snow cover varies from 134% of normal on the Upper Snake River to 280% on the Big Lost River. While this snowpack is among the heaviest years, the records show that there are three or four years

which had greater snowpack as of the first of February. In each case, however, these high years did create problems of high water and destructive floods. These major rivers, fed by the high mountain snow cover, will not reach their peak flows for another eight to ten weeks.

Reservoir stored water in the areas which experienced the drought last year are still below normal. In these areas, the heavy snowpack represents an excellent water supply for 1969 as it does for all irrigation in Idaho.

Many small streams in northern Idaho have such an extremely heavy snow-pack that runoff under the best conditions will be damaging. This is true from the standpoint of high water as well as erosion of surface soil. The PALOUSE RIVER, LAPWAI, and MISSION CREEK are all good examples of small streams with a great hazard represented by this unusually heavy snow cover.

In southern Idaho, the volume of water expressed in the snowpack at low elevations on WILLOW CREEK and SAND CREEK above IDAHO FALLS, PORTNEUF RIVER above POCATELLO, the BOISE FRONT and the WEISER RIVER is an extreme hazard. A normal snowmelt season of cool nights and warm days could eliminate this potential if it continues long enough. The problem is that once this snowpack is ripe enough to produce water, it will remain in this hazardous condition for over a week. At any time that a normal spring rain was added to this situation, these streams would produce high, fast volumes of water. If chinook winds should follow or be a part of the rainstorm, the hazard becomes that much greater because warm winds result in the maximum snow melt possible.

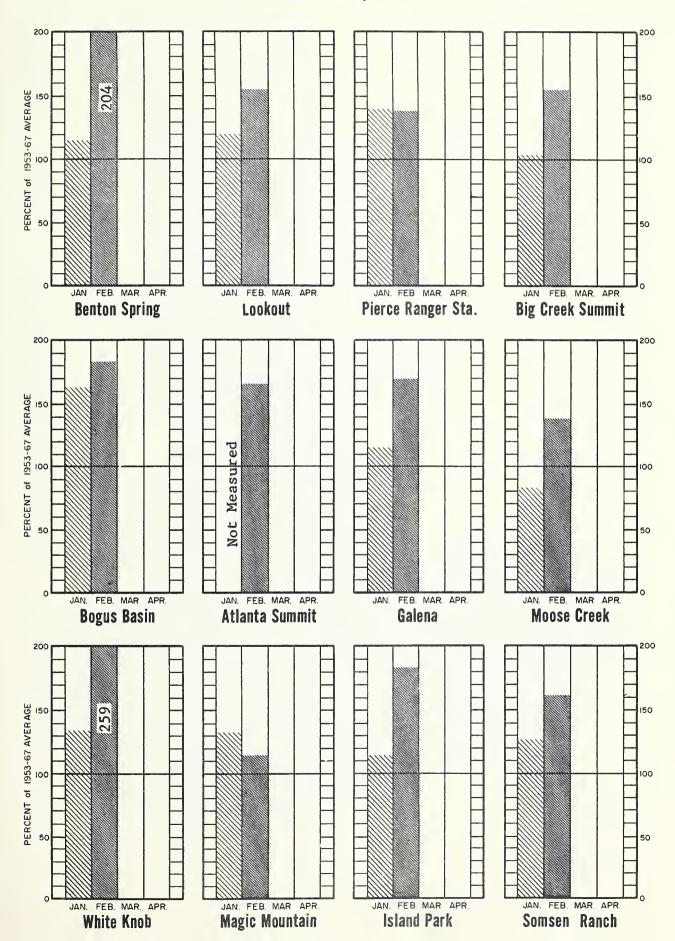
The very snowpack, however, that poses such a hazard also represents a great potential from the standpoint of the production of grass and forage. The water content of this snow will produce moisture on these foothill and valley elevations that is badly needed for rejuvenation of grass and browse cover.

The sequence of weather in the next few weeks is a key factor in determining how extreme the high water problems will be for 1969. Special measurements on the low elevation snow will be completed during the month of February to evaluate any change that may occur.

SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

As Compared To 1953-67 15 Yr. Average

FEBRUARY 1, 1969



COMPARISON of SNOW COVER									
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED		SPERCENT OF :						
UPPER COLUMBIA RIVER BASIN									
Kootenai River Pend Oreille River Clark Fork River Flathead River Priest River Spokane River	8 22 6 6 2-4 3	124 138 138 153 196 206	111 128 146 129 149 165						
LOWER SNAKE RIVER BASIN			•						
Palouse River Clearwater River Salmon River Lemhi River	3 7-23 10-20 7	491 168 181 185	201 146 149						
MIDDLE SNAKE RIVER BASIN - Northside									
Little Lost River Big Lost River Fish Creek Little Wood River Big Wood River Canyon Creek Boise River Payette River Weiser River	5 3-9 1 3-4 6-8 1-2 10-12 8-10 1	199 210 312 233 218 291 260 200 188	185 280 236 184 159 175 161						
MIDDLE SNAKE RIVER BASIN - Southside									
Raft River Goose Creek Salmon Falls Creek Bruneau River Owyhee River - Idaho	2 1 8-10 4 10	231 230 207 226 400	149 137 146 186 225						
UPPER SNAKE RIVER BASIN									
Upper Snake - Wyoming Camas-Beaver Creeks Medicine Lodge Creek Henrys Fork River Teton River Blackfoot River Portneuf River	25 2 2 3-10 3 4 3-8	178 159 153 145 135 142	134 234 218 186 147 135 161						
GREAT BASIN									
Bear River - Utah & Wyoming Montpelier Creek Mink Creek Cub River Malad River	4 4 4 2 2-4	192 182 117 90 199	133 120 121 99 141						

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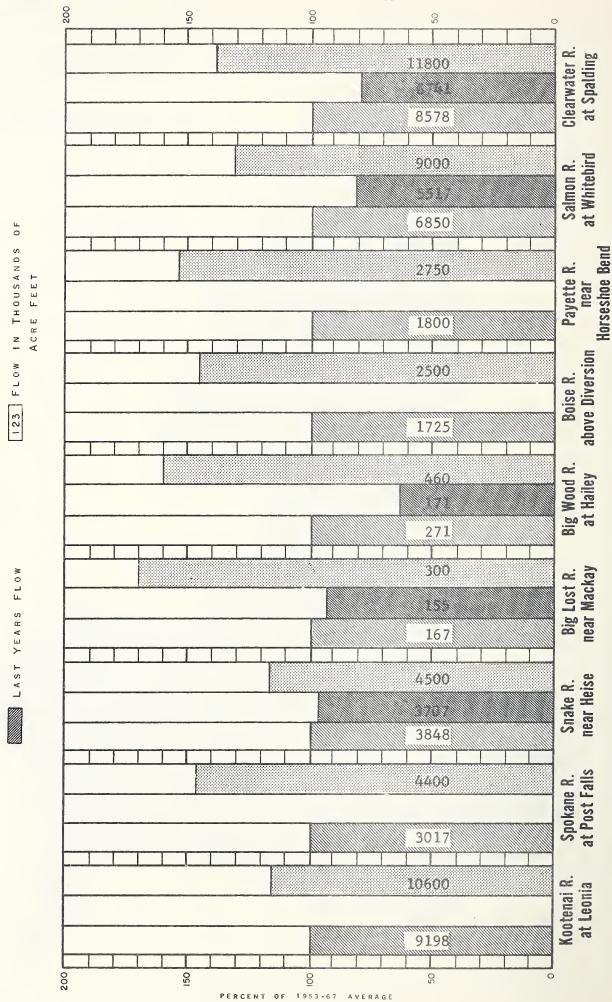
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STREAMFLOW FORECASTS (April through September period)

Based on Snow Surveys made on approximately
FEBRUARY 1, 1969

THIS YEARS FORECAST

15 YR. AVERAGE FLOW 1953-67



STREAMFLOW FORECASTS (1,000 A	c. Ft.)					,
STREAM and/or FORECAST POIN	NT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1953-67 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
KOOTENAI RIVER						
Leonia	(at)	10600	Apr-Sep		9198	115
SPOKANE RIVER						
Post Falls <u>1</u> /	(at)	4400	Apr-Sep		3017	146
SNAKE RIVER						
Heise <u>2</u> /	(nr)	4500	Apr-Sep		3848	117
BIG LOST RIVER						
Mackay 3/	(nr)	300	Apr-Sep		167	180
BIG WOOD RIVER						
Hailey <u>4</u> /	(at)	460	Apr-Sep		271	170
BOISE RIVER						
Boise <u>5</u> /	(nr)	2500	Apr-Sep		1725	145
PAYETTE RIVER						
Horseshoe Bend 6/	(nr)	2750	Apr-Sep		1800	153
OWYHEE RIVER						
Lake Owyhee net inflow <u>7</u> /		800 500	Feb-Jul Apr-Sep	139 92	438 300	183 167
SALMON RIVER						
Whitebird	(at)	9000	Apr-Sep		6850	131
CLEARWATER RIVER						
Spalding	(at)	11800	Apr-Sep		8578	138

⁽c) Assuming normal meteorological conditions.

^{1/} Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 2/ Corrected for storage in Jackson Lake and Palisades. 3/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 4/ Combined discharge Big Wood River and Big Wood Slough corrected for diversions. 5/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 6/ Corrected for storage in Cascade and Deadwood Reservoirs. 7/ U.S.B.R. records of inflow.

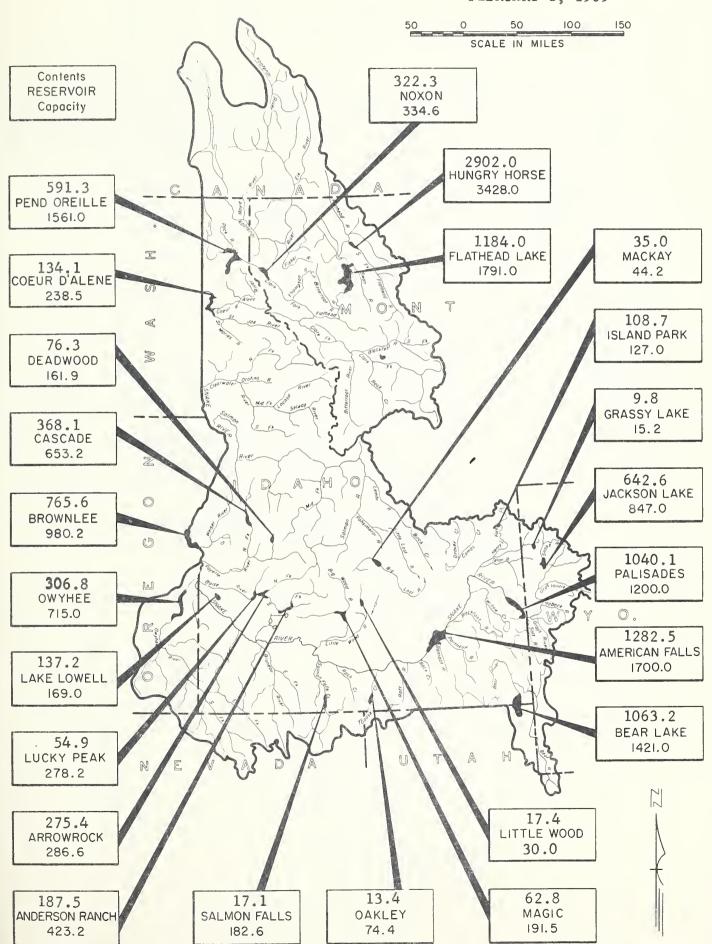
RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)				
NEOENVOIN	00.000	THIS YEAR	LAST YEAR	1953-67 AVERAG		
UPPER COLUMBIA BASIN						
Tions Fools David One 111						
Clark Fork - Pend Oreille Hungry Horse	3428.0	2902.0	2034.0	2474.0		
Flathead						
	1791.0	1184.0	1272.0	1186.0		
Pend Oreille	1561.0	591.3	556.9	916.0		
Noxon	334.6	322.3	325.7	320.2*		
Spokane						
Coeur d'Alene	238.5	134.1	93.8	136.8		
SNAKE BASIN						
Snake						
Jackson Lake	847.0	642.6	597.4	440.2		
Palisades	1200.0	1040.1	887.7	672.2*		
American Falls	1700.0	1282.5	1224.1	1241.1		
Island Park	127.0	108.7	118.4	97.5		
Grassy Lake	15.2	9.8	10.0	10.5		
Brownlee	980.2	765.6	629.2	539.8		
Goose-Trapper Creeks	300.2	703.0	027.2	337.0		
Oakley	74.4	13.4	9.7	13.5		
Salmon Falls Creek	/4.4	13.4	9.7	13.5		
Salmon Falls	182.6	17.1	16.0	22.7		
	102.0	1/.1	16.0	22.7		
Big Lost	110	25.0	,			
Mackay	44.2	35.0	28.8	28.9		
Big Wood		40.0				
Magic	191.5	62.8	118.2	91.5		
Little Wood						
Little Wood	30.0	17.4	16.8	10.5*		
Fish Creek						
Carey Valley	14.4	5.3	7.3			
Boise						
Anderson Ranch	423.2	187.5	292.1	227.0		
Arrowrock	286.6	275.4	216.9	227.7		
Lucky Peak	278.2	54.9	30.1	137.3*		
Lake Lowell (Deer Flat)	169.0	137.2	131.3	101.1		
Owyhee	1 200.0	137.2	131.3	101.1		
Owyhee	715.0	306.8	374.6	359.3		
Payette	/13.0	300.0	3/4.0	339.3		
Cascade	652.2	260 1	200 5	076 0		
Deadwood	653.2	368.1	302.5	276.9		
	161.9	76.3	80.2	69.1		
Weiser Crook	2	* 0				
Mann Creek	11.1	5.2	3.8	600 000		
GREAT BASIN						
Bear						
Bear Lake	1421.0	1063.2	1062.5	854.0		

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

FEBRUARY 1, 1969



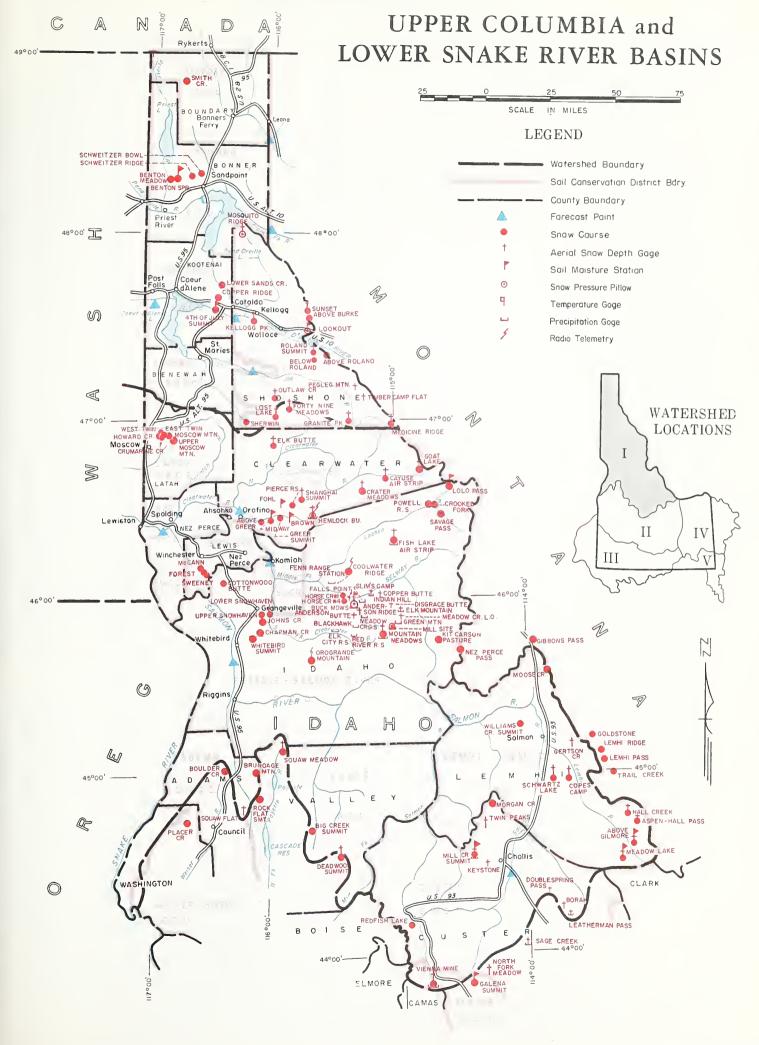
VALLEY PRECIPITATION 1/ Division Averages and Departures

In Inches

DRAINAGE	Janua	ry - 1969	Nov.	Nov. 68 - Jan. 69				
DIVISIONS	Observed	Departure 2/	Observed	Departure <u>2</u> /				
Upper Snake	4.87	+2.52	9.46	+3.01				
Snake River Plain	1.64	+0.69	4.31	+1.48				
Clark Fork	2.81	+1.71	4.70	+1.64				
Flathead	4.46	+2.03	8.80	+1.95				
Salmon-Boise-Payette	5.28	+2.45	11.41	+3.87				
Clearwater	4.59	+1.39	11.63	+2.64				
Pena Oreille-Spokane	7.56	+3.16	17.08	+4.61				
Kootenai	4.01	+0.42	11.39	+1.47				
Owyhee-Malheur	2.44	+1.22	6.16	+2.73				

^{1/} Preliminary analysis by U. S. Weather Bureau from data furnished by Meterological Service of Canada and U. S. Weather Bureau

^{2/} Departure from 15-year (1953-67) drainage division average.



INDEX to SNOW COURSES

NO	D. STATE NAME	SEC.	TWP. F	RGE. E	LEV.		NO.	STATE	NAME	SEC.	TWP. RGE	ELEV	
		LAT.		LONG.						LAT.	AND LON	1G.	
	UPPER COLUMI	BIA BAS	SIN						CLEARWATER RIV	E P			
							16C11	I	Above Greer	14	35	N 2E	1240
	KOOTENAI RIVER						15D7a	I	Anderson Butte	34	30	N 9E	6800
16A1	I Smith Creek	29	64N	3W	4800		15D8a 15D9p	I	Anderson Ridge Blackhawk	35 31			5400 6080
	- SMILI GLOOK		0411	3.,	4000		16 C14m	1	Brown	11	35	N 3E	3100
	PEND OREILLE - PRI	EST RIVER					15D5MAP 15C3A	I	Buck Meadows Cayuse Airstrip	26 4	31 38		5600 3700
16 A2	I Benton Meadow	27	58N		2344		15C7R	I	Coolwater Mountain	32	33	n 8E	6200
16A3M 16A6	I Benton Spring I Schweitzer Bowl	30 20	58N 58N		4900 4500		15D 10 a 16C16	I	Copper Butte Cottonwood Butte	35 33			6000 5140
16A5	I Schweitzer Ridge	19	58 N		6100		15C9A	I	Crater Meadows	2	37		6100
	CDOKANE DIVER						14C10 15D11a	I	Crooked Fork	27	37		3800
1500	SPOKANE RIVER	1.1		.	. 100		16C15A	I	Disgrace Butte Elk Butte	26 6	30 40		6600 5550
15B8 15B7	I Above Burke I Above Roland	11 35	48N 47N		4 100 43 50		15D12p	I	Elk City Rgr. Sta.	23	29	N 8E	4000
15B6	I Below Roland	34	47N	6 E	3770		15D13ap 15C11a	I	Elk Mountain Falls Point	34 10	30 31		6900 4600
16B2 16B 3 M	I Copper Ridge I Fourth of July Summit	6 & 7 6	50 N 49 N		4800 3100		15C12p	I	Fenn Ranger Station	23	. 32	N 7E	1580
15B13A	I Granite Peak	3	42N	8 E	6000		15C2AP 15C8m	I	Fish Lake Airstrip Fohl	35 16		_	5000 3450
16B5A 15 B2MS	I Kellogg Peak I Lookout	19 4	48N 47N		5560 5250		16C9	I	Forest	1	32	N 3W	4550
16B 1	I Lower Sands Creek	32	51N	1W	3400		15B3A 14C9A	I	Forty-nine Meadows Goat Lake	6 4	43 38		5000 6600
15B4A 16A4AS	I Medicine Ridge I Mosquito Ridge	24 5	43N 54N		6150 5110		15D14p	I	Green Mountain	15		N 11E	7000
15 B12A	I Outlaw Creek	19	44N	5E	3750		16C13 15C6APR	I	Greer Summit Hemlock Butte	13 7	35 36		3000 5500
15B15a 15B5A	I Pegleg Mountain I Roland Summit	15 26	44N 47N		5735 5200		15C8s	M	Hoodoo Basin	17			6000
16C1	I Sherwin	28 & 33	42 N		3200		15C1	M I	Hoodoo Creek Horse Creek #1	16			5900
15B9A 15B16a	I Sunset I Timber Camp Flat	28 23	49N 44N		5600 4300	1	15C14 15C15	I	Horse Creek #4	25 5	31 30		5500 5400
13610a	1 IImber Camp Flac	23	24414	7.5	4500		15D2la	I	Horse Point	4	30		5700
	LOWER SNAKE	BASIN					15D22ap 14D3	I	Indian Hill Kit Carson Pasture	30 4	31 27		6100 5020
	LOWER STARE	DASIN					14C5M	I	Lolo Pass	16	38	N 15E	5230
	PALOUSE RIVER						15B14A 15D15p	I	Lost Lake Lower Horse Creek	16 28			6000 4100
							16D7	I	Lower Snowhaven	9	29		5250
16C6	I Crumarine Creek	24	40N		3340		16C8 15D16p	I	McCann Meadow Creek Guard S	25 tation 5	33 29		4300 2955
16C3 16C5	I East Twin I Howard Creek	13 14	40N 40N		4050 3450		15D10p	Ī	Meadow Creek Lookout	_			7000
16C2	I Moscow Mountain	18	40 N	4W	4400	1	16C12M	I	Midway Mill Site	14			2200 6700
16C7SR 16C4P	I Upper Moscow Mountain I West Twin	16 14	40 N 40 N		4600 4250		15D18ps 15D6AP	I	Mountain Meadows	22 9	. 28: 27:		6300
10041	I west Iwill	14	4011	יייכ	4230		14D1	M	Nez Perce Pass	25	1	s 24W	6575
							15D4R 15C5	I	Orogrande Mountain Pierce Kanger Statio	n 24	271 361		7800 3170
							14C6	I	Powell Ranger Statio	n 33	37	N 14E	4230
							15D19p 15D20a	I	Red River Ranger Sta Sable Hill	tion 4	27 29		4340 6000
							14C4	Ī	Savage Pass	18	36		6600
	LEGEND						15C4A 15C13p	I	Shanghai Summit Slim's Camp	7 11	37 31		4600 1850
	Numbering System (examp	.1.					16C10	I	Sweeney	1	32		4435
10:3) (e)					16D4	I	Upper Snowhaven	8	& 9 29	N 3E	5600
10J7	SNOW COURSE ONLY.	۸۲۶											
10J7P 10J7M	SNOW COURSE AND PRECIPITATION GA SNOW COURSE AND SOIL MOISTURE ST.								SALMON RIVER				
10J7F1	SNOW COURSE AND AERIAL MARKER.	, , , TOIN.					13E19MA	I	Above Gilmore	13	131	N 26E	8200
10 <u>1</u> 7s	PRESSURE PILLOW ONLY.						13E21A	I	Aspen-Hall Pass	6	16	N 28E	8110
10)75	SNOW COURSE AND PRESSURE PILLOW	<i>I.</i> ,					15E2 13E8a	I	Big Creek Summit Borah	24 21	151 101	N 5E N 23E	
10J7MA	SNOW COURSE, SOIL MOISTURE STATIC	ON ANO AERIAL M	ARKER.				16D6	I		6	191	N 3E	7560
10J7MP	SNOW COURSE, SOIL MOISTURE STATIC	ON ANO PRECIPIT	ATION GA	GE.			16D2	I	Chapman Creek	16 36	291 181	N 2E N 22E	4215 7500
10J7m	SOIL MOISTURE STATION ONLY						13E17A 13E25a	I	Copes Camp Doublespring Pass	3	101		8400
10J7a	AERIAL MARKER ONLY.						13D17a	I	Gertson Creek	22	221		8050
10J7p	STORAGE PRECIPITATION GAGE ONLY	۲.					13D2 13D9	M M		4 11	2. 8.		7100 8100
							13E20A	I	Hall Creek	1	161	N 27E	7560
							16D3 14E6a	I	Johns Creek Keystone	9 15	291 131		3805 7700
							13E24ap		Leatherman Pass	20	91	N 23E	9800
							13E1 13E23	M M	Lemhi Pass	9 4	10 10		7480 8100
							13E18MA		Lemhi Ridge Meadow Lake	24	13		9100
							14E1MAP		Mill Creek Summit	8		N 17E	8870
							13D16 14E4	I	Moose Creek Morgan Creek	22 32	& 26 271 181	N 21E N 19E	6200 7580
							14E2	I	Redfish Lake	3	91	N 13E	6600
							13E16A 13E2	I M	Schwartz Lake Trail Creek	34 15	181 10	N 22E S 15W	8500 7090
							14E3a	I	Twin Peaks	28	15	N 17E	10300
							14F4AP 16D5	I	Vienna Mine Whitebird Summit	32 17	6: 29:		8900 4390
							14D4	ī	Williams Creek Summi			N 20E	7800

CURRENT INFORMATION

PAST RECORD

DRAINAGE BASIN and SNOW COURSE

NAME

NO. ELEVATION

CURRENT INFORMATION

PAST RECORD

WATER CONTENT (Inches)

CONTENT (Inches)

LAST YEAR AVERAGE b

UPPER COLUMBIA RIVER BASIN

PEND OREILLE - PRIEST	RIVER						
Benton Meadow Benton Spring Schweitzer Bowl Schweitzer Ridge	16A2 16A3 16A6 16A5	2344 4900 4500 6100	1/31 1/29 1/30 1/30	54 67 99 161	10.4 18.0 28.8 52.0	5.6 10.7 16.7 22.7	5.1 14.0
SPOKANE RIVER	1025	0100	1/ 50	101	J2.0	22.1	
Fourth of July Smt. Lookout Sherwin	16B3 15B2 16C1	3100 5250 3200	2/3 1/31 2/3	64 133 64	14.0 38.7 16.2	5.2 21.0 7.3	6.4* 25.0 10.4*
		LOWER S	SNAKE R	IVER BA	SIN		
PALOUSE RIVER							
Crumarine Creek East Twin Howard Creek	16C6 16C3 16C5	3340 4050 3450	2/1 2/1 2/3	52 63 43	14.0 18.0 10.7	3.7 5.0 T	5.9* 10.5* 4.8*
CLEARWATER RIVER							
Above Greer Anderson Butte (A) Anderson Ridge (A) Buck Meadows Cayuse Airstrip (A) Coolwater Mountain(R) Coolwater Mtn. (SP) Copper Butte (A) Cottonwood Butte Crater Meadows (A) Crooked Fork Disgrace Butte (A) Elk Mountain Falls Point (A) Fish Lake Airstrip(A) Forest Goat Lake (A) Greer Summit	15C7 15D10 16C16 15C9 14C10 15D11 15D13 15C11 15C2 16C9 14C9 16C13	1240 6800 5400 5600 3700 6200 6200 6000 5140 6100 3800 6600 4600 5000 4550 6600 3000	1/30 1/29 1/29 2/4 2/3 2/1 2/1 1/29 2/3 1/29 2/4 2/4 1/29 2/3 1/28 2/3 1/30	12 87 61 74 58 61 36 117 44 72 123 57 147 27 133 15	3.4 20.8 17.6 25.0 16.8 17.2 15.9 16.4 10.9 34.0 11.4 25.2 45.0 16.5 42.8 6.7 38.7 3.8	0.0 16.5 9.2 15.4 11.7 16.6 11.2 22.5 8.8 3.1	 7.6* 25.1* 5.3*
Hemlock Butte (A) Hemlock Butte (R) Hemlock Butte (SP) #Hoodoo Basin Mont. #Hoodoo Creek Mont. Horse Creek #1 (A)	16C6 16C6 16C6 15C8 15C1 15C14	5500 5500 5500 6000 5900 5500	2/3 1/30 1/30 1/30 1/30 2/4	146 132 129 84	42.5 43.3 44.3 44.7 41.8 28.5	23.7 22.2 31.3 27.6 15.8	34.2*
Horse Creek #4 (A)	15C15	5400	1/29	69	20.0	~-	

⁽b) 1953-67, 15 year period. *Not located directly on this drainage. *Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW							
			***	RRENT INFOR			RECORD
DRAINAGE BASIN and SNOV	V COURSE	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	CONTENT	WATER CON	TENT (Inches)
17.00	1	LECTATION			(inches)	LAST TEAK	AVENAGE
Horse Point (A)	15D21	5700	1/29	55	15.4	10.6	
Indian Hill (A)	15D22	6100	1/29	36	9.7	5.4	
Lolo Pass	14C5	5230	1/29	84	25.6	J	
Lower Snowhaven	16D7	5250	1/29	56	16.1		
McCann	16C8	4300	1/28	24	6.0	2.0	5.1*
Meadow Cr.Lookout (A)		7000	2/4	90	32.4	16.8	
Midway	16C12	2200	1/30	14	4.6	T	
Mill Site (SP)	15D18	6700	2/4	74	26.0	15.3	
Mountain Meadows	15D6	6300	2/4	61	20.0	14.6	
Orogrande Mtn. (R)	15D4	7800	2/1		32.9	28.6	
Pierce R. S.	15C5	3170	1/30	42	11.8	5.4	8.5
Powell R. S.	14C6	4230	1/29	45	12.8		
Sable Hill (A)	15D20	6000	1/29	55	14.8	9.9	
Savage Pass	14C4	6600	1/29	78	23.3	18.5	
Shanghai Summit (A)	15C4	4600	2/2	87	29.3		
Sweeney	16C10	4435	1/28	25	6.0	2.8	5.0*
Upper Snowhaven	16D4	5600	1/29	59	17.2		
SALMON RIVER							
Big Creek Summit	15E2	6600	1/31	126	35.9	17.3	23.2
#Boulder Creek	16D1	5500	1/29	82	23.3	12.4	15.9*
Brundage Mountain	16D6	7560	1/28	141	45.8	24.1	
Chapman Creek	16D2	4215	1/29	20	5.3	3.5	2.8*
#Galena Summit	14F12	8795	1/27	99	24.7	13.0	15.3
#Gibbons Pass Mont.	13D2	7100	1/28	79	22.0	14.8	14.4
Johns Creek	16D3	3805	1/29	16	4.0	0.8	2.0*
Mill Creek Summit	14E1	8870	2/3	80	25.3	13.4	
Moose Creek	13D16	6200	1/30	60	15.2	9.0	10.9
Morgan Creek	14E4		1/27	58		8.8	11.1*
Redfish Lake	14E2		1/30			5.5	
#Rock Flat Summit	16E1		1/28		15.6		
Whitebird Summit	16D5	4390	1/29	26	6.8	5.4	4.8*
Lemhi River							
Above Gilmore	13E19	8200	1/30	42	10.0	5.4	
Aspen-Hall Pass	13E21	8110	1/30	43	9.7	5.1	
Copes Camp	13E17	7500	1/29	37	8.2		
Gertson Creek (A)	13D17	8050	1/30	34	7.5		
Hall Creek	13E20	7560		27	5.6		
Meadow Lake	13E18	9100	1/30	71	19.9		
Schwartz Lake	13E16	8500	1/29	49	12.8	6.4	

APPENDIX

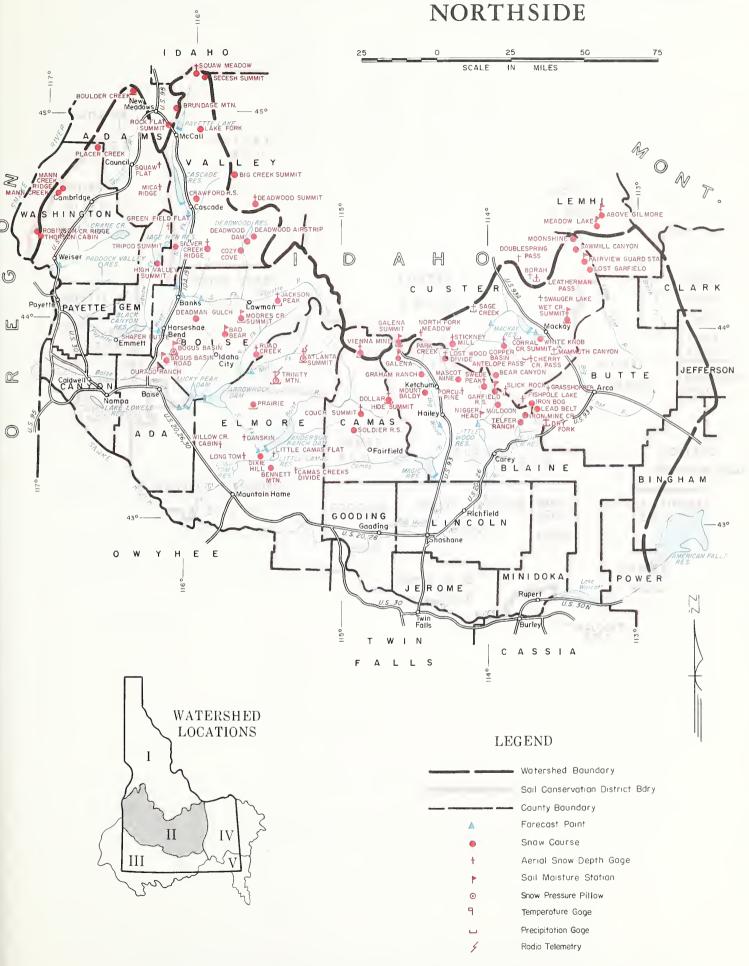
SOIL MOISTURE	PROFILE	PROFILE (Inches) SOIL MOISTURE (Inches)						
STATION Name	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR			
SPOKANE RIVER								
Fourth of July Summit Lookout	3100 5250	48 48	11.6	2/3 1/31	10.2	8.8 8.4	10.2	
CLEARWATER RIVER								
Brown Midway	3100 2200	30 36	6.7	1/30 1/30	5.6 5.1	5.9 5.3	5.6 5.0	
SALMON RIVER								
Mill Creek Summit	8870	4 8	8.4	2/3	6.7	6.6	3.1 ^m	
Lemhi River								
Above Gilmore Meadow Lake	8200 9100	6υ 4 8	5.4 4.4	1/30 1/30	4.3	3.0	1.8 ^m 1.5 ^m	
m March Measurement								

SNOW			CUR	RENT INFOR	MATION	PAST R	ECORD
DRAINAGE BASIN and SNOW			DATE OF	SNOW DEPTH	WATER CONTENT	WATER CONT	ENT (Inches)
NAME	NO.	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	AVERAGE 6

MI	DDLE SNA	AKE RIV	ER BASI	<u> </u>	THSIDE		
LITTLE LOST RIVER							
Fairview Guard Sta. Lost Garfield Moonshine Sawmill Canyon Wet Creek Summit	13E5 13E3 13E6 13E4 13E7	6750 6600 7450 6900 7600	1/28 1/28 1/28 1/28 1/30	27 22 62 46 74	5.9 4.9 14.0 9.1 17.4	3.0 3.2 7.1 4.7 7.8	3.2* 2.6* 8.3* 5.8* 7.8*
BIG LOST RIVER							
Bear Canyon Cherry Cr. Pass (A) Copper Basin Dry Fork (A) Iron Bog Leadbelt Lost Wood Divide (A) Mammoth Canyon (A) Stickney Mill (A) White Knob	13F3 13F13 13F2 13F20 13F11 13F12 14F3 13F17 14F2 13F1	7920 8900 7650 7340 7650 6800 7900 8300 7500 7700	1/31 1/31 1/31 1/31 1/29 1/29 1/31 1/31 1/31	95 15 50 91 90 72 107 43 45 55	25.1 3.6 15.3 24.0 22.5 18.3 25.7 10.3 11.9	2.4 8.1 7.7 10.4 8.3 14.0 5.8 6.1 6.2	 8.0* 6.2* 5.1*
FISH CREEK							
#Dry Fork (A)	13F20	7340	1/31	91	24.0	7.7	
LITTLE WOOD RIVER							
#Bear Canyon Garfield Rgr. Sta. Muldoon Porcupine (A) Swede Peak	13 F3 13 F4 13 F5 14 F14 13 F9	7920 6554 6300 8350 7500	1/31 1/29 1/29 1/31 1/29	95 71 57 100 95	25.1 17.7 13.8 23.7 22.5	6.1 4.6 11.8 10.9	7.0* 5.5* 10.4*
BIG WOOD RIVER							
#Couch Summit Galena Galena Summit Graham Ranch #Lost-Wood Divide(A) Mount Baldy #Porcupine (A) Soldier Rgr. Sta.	14F10 14F1 14F12 14F5 14F3 14F9 14F14 14F11	6950 7300 8795 6200 7900 9000 8350 6100	1/31 1/27 1/27 1/28 1/31 1/28 1/31 1/31	93 91 99 74 107 101 100 69	23.7 22.2 24.7 17.0 25.7 24.2 23.7 18.9	8.6 10.7 13.0 7.1 14.0 10.3 11.8 7.2	10.9* 13.3 15.3 9.3 13.8 8.4*
CANYON CREEK							
Bennett Mountain Dixie Hill	15F7 15F8	6650 5230	1/29 1/28	63 15	18.8 5.9	5.9 2.6	11.8*

⁽b) 1953-67, 15 year period. * Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN NORTHSIDE



INDEX to SNOW COURSES

NO. ST	ГАТЕ	NAME	SEC.	TWP.	RGE.	ELEV.	NO. S	TATE	NAME	SEC.	TWP.	RGE.	ELEV.
				7110									
M	m	DLE SNAKE RI	VER	RAS	INI				BOISE RIVER				
IVI.	ענ			DAD	TTA		15F4APS	I	Atlanta Summit	23	5N	10E	7500
		NORTHSID	\mathbf{E}				15F2M	I	Bad Bear	35	7 N	6E	5500
							16F4 16F5m	I	Bogus Basin Road	32	5N	3E	5360
		LITTLE LOST RIVER					14F10A	I	Bogus Basin Road Couch Summit	36 9	5 N 2 N	2E 14E	4830 6950
13E5M	I	Fairview Guard Station	27	12N	26 E	6750	15F10a	ī	Danskin	17	1 N	7E	5650
13E3	ī	Lost-Garfield	3	11N	26 E	6600	16F1	I	Deadman Gulch	29	7N	4E	
13E6	I	Moonshine	31	13N	26E	7450	15E9AP	I	Jackson Peak	7	8N	9E	7000
13E4	1	Sawmill Canyon	17	12N	26 E	6900	15F1MP 15F6P	I I	Moores Creek Summit	19	7 N	7E	6100
13E9a	I	Swauger Lake	26 15	9 N	24E 25E	90 5 0 7600	15F3A	I	Road Creek	13 5	2N 5N	7E	4900 5550
13E7MAP	Ι	Wet Creek Summit	15	8N	236	7000	15F5APS	Ī	Trinity Mountain	3 7	3 N	8 E 9 E	7780
		BIG LOST RIVER					15F11a	I	Willow Creek Cabin	26	1N		4710
13F18p	I	Antelope Pass	7 26	5N	23E 21E	8800			CANYON CREEK				
13F3 13F13a	I	Bear Canyon Cherry Creek Pass	7	5N 5N	21E 23E	7920 8900	15F7	I	Bennett Mountain	7	2 S	9E	6650
13F2A	ī	Copper Basin	24	6 N	21E	7650	15F8	I	Dixie Hill	13	2 S	8E .	5230
13F19p	I	Corral Creek Summit	25	7 N	22E	8550	15F12a 15F13a	I	Little Camas Flat	21	18	9E	4950
13F20ap	I	Dry Fork	23	3 N	23E	7340	15F13a	Ι	Long Tom	19	18	8E	4550
13F8a 13F7a	I	Fishpole Lake Grasshopper	28 15	4N 4N	22E 22E	9350 8400	Ì		PAYETTE RIVER				
13F11	I	Iron Bog	23	4N	22E	7650	ŀ		I A I E I I E KI V E K				
13F12	I	Leadbelt	34	4 N	23E	6800	16F2MPS	I	Bogus Basin	16	5N	3E	6120
14F3A	I	Lost Wood Divide	19	6N	19E	7900	15E8	I	Cozy Cove	19	11N	7 E	5900
13F17ap	Ī	Mammoth Canyon	14	6N	23E	8300	15E3 15E10	I	Crawford Ranger Station Deadwood Airstrip	21 8	14N 11N	4E	4800
14F15a 14F6p	I	North Fork Meadow Park Creek	20 18	7N 6N	18E 19E	8150 7685	15E10	I	Deadwood Dam	8	11N 11N	7E 7E	5440 5290
14F5p	I	Sage Creek	12	9N	20E	7800	15E4A	ī	Deadwood Summit	23	14 N	7 E	7000
13F14ap	Ī	Slickrock	17	4N	22E	8640	16E7a	I	Greenfield Flat	1	13N	2 E	7370
14F2A	I	Stickney Mill	9	6 N	19E	7500	16 E4	I	High Valley Summit	9	10N	2 E	5170
13F1	Ι	White Knob	25	7N	23E	7700	15E1 16E1	I I	Lake Fork Rock Flat Summit	3 1	18 N 18 N	4E 2E	6000
		BIG WOOD RIVER					15D1	I	Secesh Summit	34	22N	4E	5200 6600
							16F7s	Ī	Shafer Butte	15	5N	3E	7480
15F9a	I	Camas Creeks Divide	11	2 S	9E	5720	15E5A	I	Silver Creek Ridge	24	12N	5E	5700
14F8AP	I	Dollarhide Summit	16	3N	15E	8620	15D2A	I	Squaw Meadow	5	21N	4E	5800
14F1M 14F12MP	I	Galena Galena Summit	3	6N	15E	7300 8795	16E3	Ι	Tripod Summit	17	11N	3 E	5200
14F12MP 14F5	I	Graham Ranch	33 10	7N 5N	15E 17E	6200			WEISER RIVER				
14F7	Ī	Mascot Mine	8	4N	20E	7900	16D1P			1.5			
14F9	I	Mount Baldy	26	4N	17E	9000	16E6a	I I	Boulder Creek Mica Ridge	15 15	20 N	1W 2E	5500 6800
14F11	I	Soldier Ranger Station	19	2N	14E	6100	16E2	I	Placer Creek	15 & 16	15N 17N	2 E 3 W	6000
		LITTLE WOOD RIVER					16E5a	I	Squaw Flat	32	17N	2E	6230
13F4M	I	Garfield Ranger Station	11	3N	21E	6554			MANN CREEK				
13F5	I	Muldoon	25	3 N	21E	6300	16 E9	I	Mann Creek	29	15N	5W	5980
14F13m	I	Niggerhead	26	2N	20E	5450	16E8 17E1	I	Mann Creek Ridge	28	15N	5W	6680
14F14a 13F9A	I	Porcupine Swede Peak	30 4	4N 3N	20 E 21 E	8350 7500	17E1 17E2	I I	Robinson Creek Ridge Thorson Cabin	2 12	14 N 14 N	6W 6W	6220 5320
13798	ı	FISH CREEK	4	214	216	7300	1,32	-	1	12	14.1	OH-	3320
13F10	I	Iron Mine Creek	32	3N	23E	6370							
13F6	Ι	Telfer Ranch	12	2N	22E	6000							

LEGEND

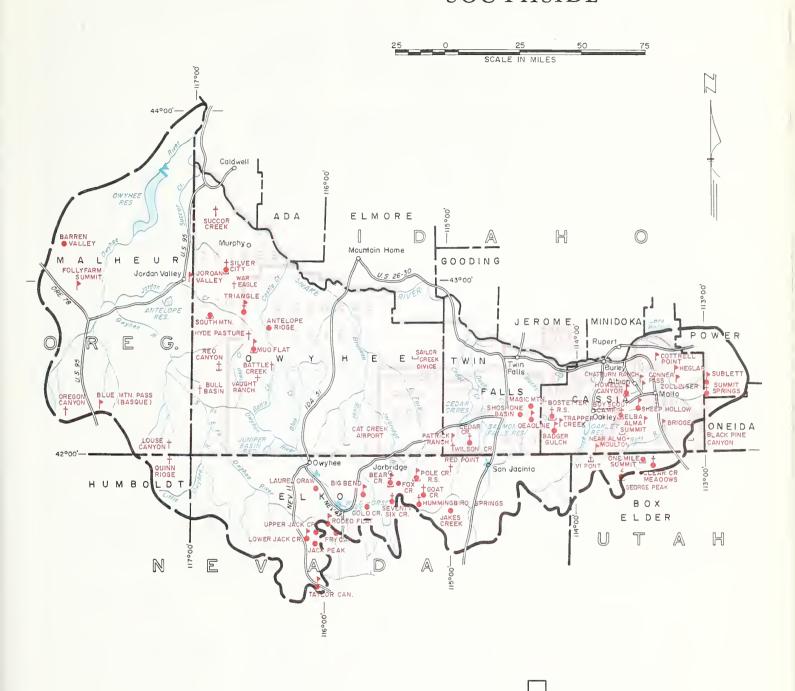
Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.

SNOW		(CU	RRENT INFOR	MATION	PAST	RECORD
DRAINAGE BASIN and SNOW	W COURSE		DATE OF	SNOW DEPTH	WATER	WATER CON	TENT (Inches)
NAME	NO.	ELEVATION	SURVEY	(Inches)	(inches)	LAST YEAR	AVERAGE 6
BOISE RIVER							
Atlanta Summit	15F4	7500	2/3	126	34.4	16.2	20.7*
Bad Bear	15F2	5500	1/31	60	14.7	5.5	9.9*
#Bennett Mountain	15F7	6650	1/29	63	18.8	5.9	11.8*
#Bogus Basin	16F2	6120	2/4	81	26.7	7.6	14.7
Bogus Basin Road	16F4	5360	2/4	36	10.6	1.7	4.8%
Couch Summit	14F10	6950	1/31	93	23.7	8.6	10.9*
#Dixie Hill	15F8	5230	1/28	15	5.9	2.6	- ~
Moores Creek Summit	15F1	6100	1/31	118	31.1	11.7	20.9
Prairie	15F6	4900	1/29	28	7.6	3.4	4.7
Road Creek (A)	15F3	5550	2/3	51	12.8	5.1	7.1*
#Soldier Rgr. Sta.	14F11	6100	1/31	69	18.9	7.2	8.4*
Trinity Mountain	15F5	7780	2/3	143	43.9	20.1	26.4*
PAYETTE RIVER							
#Big Creek Summit	15E2	6600	1/31	126	35.9	17.3	23.2
Bogus Basin	16F2	6120	2/4	81	26.7	7.6	14.7
#Brundage Mountain	16D6	7560	1/28	141	45.8	24.1	
Cozy Cove	15E8	5900	1/29	68	21.2	9.7	10.7
Crawford Rgr. Sta.	15E3	4800	2/1	50	10.9	7.0	5.6*
Deadwood Airstrip	15E10	5440	1/29	61	16.6	8.7	10.3*
Deadwood Dam	15E7	5290	1/29	62	17.7	9.7	11.0
High Valley Summit	16 E4	5170	2/2	60	14.1	4.7	
Rock Flat Summit	16E1	5200	1/28	62	15.6	10.4	11.7
Tripod Summit	16E3	5200	2/2	78	17.6	11.9	13.5*
WEISER RIVER							
Boulder Creek	16D1	5500	1/29	82	23.3	12.4	15.9*
MANN CREEK							
Mann Creek	16E9	5980	1/27	72	22.1		~ ~

SOIL MOISTURE		PROFILE	(Inches)		SOIL MOISTU	RE (Inches)	
STATION NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
LITTLE LOST RIVER							
Fairview Guard Station Wet Creek Summit	5850 8175	48 48	7.6 17.1	1/28 1/30	8.5 16.4		
LITTLE WOOD RIVER							
Garfield R. S.	6554	36	5.2	1/29	4.0	2.7	3.3
BIG WOOD RIVER							
Galena	7300	48	10.1	1/27	8.7	8.3	5.7
BOISE RIVER		3					
Bad Bear Bogus Basin Bogus Basin Road Moores Creek Summit	5500 6120 4830 6100	72 48 48 60	6.3 13.1 7.1 8.8	12/31 1/21 1/28 12/31	5.6 ^j 13.4 5.7 8.1 ^j	4.5 5.7 3.9 7.6	8.7 6.0 7.5
j January Measurement							
	-						

MIDDLE SNAKE RIVER BASIN SOUTHSIDE





IV

INDEX to SNOW COURSES

NU.	ST/	TE NAME	SEC.		RGE.	ELEV.	NO.	STAT	TE NAME	SEC.	TWP. 8	RGE. E	LEV.
			LAT.	AND	LONG					LAT.	AND I	ONG.	
	MIT	DDLE SNAKE RI	VER	$P \Delta$	SIN				BRUNEAU RIVER				
	TATT	DDLE SNAKE KI	V 1310	DA	DIL				Bear Creek	2.3		# O P	7000
		SOUTHSID	\mathbf{E}				15H1MAP 15G3p	N	Cat Creek Airport	31 9	46N 16S	58E 6E	7800 5700
							15H2	N	Fox Creek	33	46N	58 E	6800
		RAFT RIVER					15H15A	N	Hummingbird Springs	6	45N	60E	8945
13G15p	I	Black Pine Canyon	28	15 S	29E	7100	15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330
13G2AP	ī	-	8	148	24E	7600	15G4p	ï	Sailor Creek Divide	21	108	10E	4350
13G11m	Ī	-	7	158	27E	4750	1564Р	-	Saller Stock Siviac		103	102	4330
13G13m	ī	0-	4	12S	25E	4700			OWYHEE RIVER				
13H2A	Ü	Clear Creek Meadows	26	14N	14W	9050			O 11 1 1 1 2 2 1 1 1 2 1 1				
13G6m	I	Conner Pass	35	12 S	25E	5700	16G6	1	Antelope Ridge	20	88	1E	5900
13G7m	I	Cottrell Point	24	10S	25E	4490	18F5	0	Barren Valley	26	17S	38E	4200
13G10m	1	Elba-Almo Summit	29	14S	25E	5690	16G9a	I	Battle Creek	10	118	1E	5700
13H4sp	U	George Peak	4	13N	14W	9000	15H4M	N	Big Bend	30	45N	56 E	6700
13G8m	I		19	11S	28E	4590	17G2m	0	Blue Mountain Pass (Basque	:) 4	388	42E	5290
13G1MP	I	Howell Canyon	2	13S	24E	8000	16G10a	I	Bull Basin	19	128	5W	5600
13G12m	I		27	16 S	23E	5950	18G3m	0	Folly Farm Summit	8	30S	38E	4450
13G14p	I	Near Almo	35	15S	24E	5200	15H7	N	Fry Canyon	31	43N	54E	6700
13H1P	U	One Mile Summit	19	14N	14W	7330	15H5	N	Gold Creek	31	45N	56 E	6600
13G5M	Ι	Sheep Hollow	4	14S	24E	6200	16G5a	I	Hyde Pasture	SE½ 31	88	2W	5800
12G8M	I		8	128	30E	6000	16H4	N	Jacks Peak	28	42N	53E	8420
12G9A	I		15	138	30E	6400	17G3m	0	Jordan Valley	2	30S	46 E	4390
13G9m	1	Zollinger	2	13S	28 E	5000	16H5	N	Laurel Draw	20	45N	53E	6700
		GOOSE - TRAPPER CR	FFK				17G4a	0	Louse Canyon	27	40S	44E	6440
		GOOSE - TRATTER CR	LLK				16H1M	N	Lower Jack Creek	18	42N	53E	6800
14G3M	I	Badger Gulch	24	15 S	19E	6660	16G7MP	I	Mud Flat	34	9S	2W	5500
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500	17G5a	0	Oregon Canyon	9 9	40S 47N	40E	6950 6300
14G7m	I	Trapper Creek	2	15S	20E	5300	17H6a	N I	Quinn Ridge Red Canyon	32	11S	41E	6650
13Н3ар	U	Vi Pont	17	14N	17W	7670	16G11ap 15H6M	N	Rodeo Flat	36	43N	53E	6800
		CA1440N	12				16F3AP	I	Silver City	6	5S	3W	6400
		SALMON FALLS CREE	K				16G1P	T	South Mountain	35	7S	5 W	6340
14G5A	I	Cedar Creek	25	15S	13E	7000	16F6a	I	Succor Creek	25	35	5W	6100
14G4M	I	Deadline	25	14S	18E	6900	15H9M	N	Taylor Canyon	35	391	53E	6200
15H13A	N	Goat Creek	31	46N	60E	8800	16G4MA	I	Triangle	ทริ 35	78	3W	5150
14H1	N	Jakes Creek	6	42N	62E	7000	16H2	N	Upper Jack Creek	9	42N	53E	7250
14G2	I	Magic Mountain	14	14S	18E	6700	16G12a	ï	Vaught Ranch	10	118	1W	5950
15G1m	I	Patrick Ranch	23	15 S	12E	5720	16G13a	Î	War Eagle	20	5 S	3W	7700
15H18a	N	Red Point	15	47N	61E	7940	10000	_	6				
14G6	I	Shoshone Basin	24	14S	17E	5740							
15G2a	I	Wilson Creek	24	16S	12E	7500	1						

LEGEND

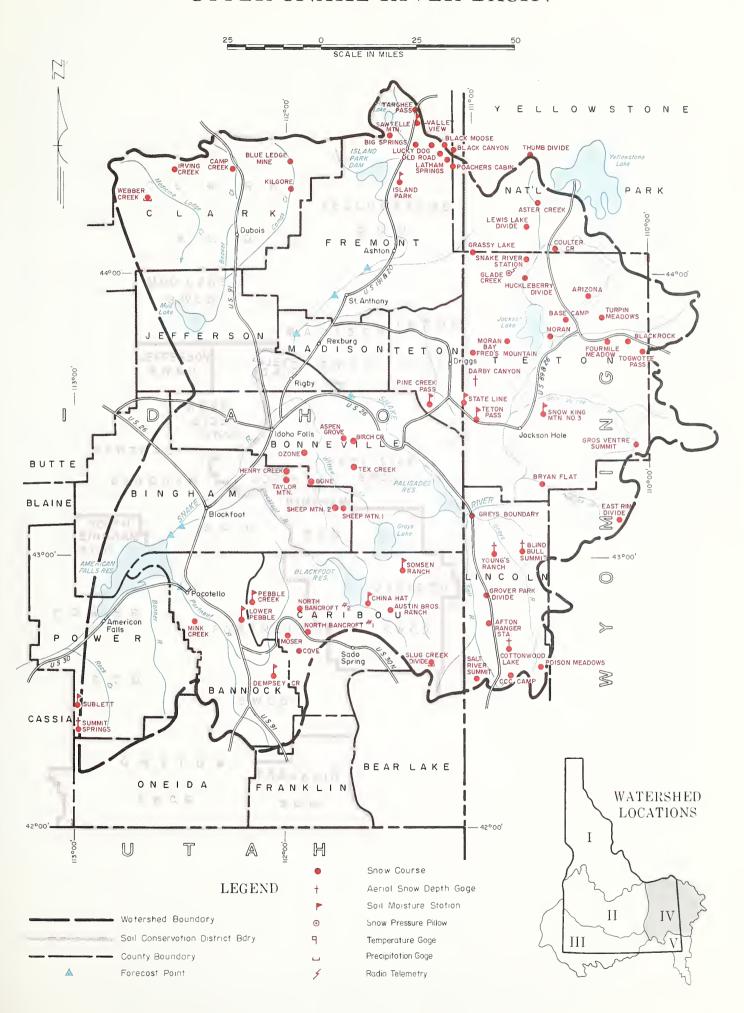
Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
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SNOW		- (CUI	RRENT INFOR	MATION	PAST I	RECORD
DRAINAGE BASIN and SNOW			DATE OF	SNOW DEPTH	WATER CONTENT		TENT (Inches)
N A M E	NO.	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	AVERAGE 6
MI	DDLE SN	AKE RIVE	ER BASI	N - SOUT	HSIDE		
RAFT RIVER							
Howell Canyon Sublett	13 G1 12 G 8	8000 6000	1/29 1/28	57 28	23.2	8.5 5.2	15.0* 6.2*
GOOSE CREEK							
Badger Gulch	14G3	6660	1/30	29	8.5	3.7	6.2*
SALMON FALLS CREEK							
#Bear Creek (A) Cedar Creek (A) Deadline Goat Creek (A) #Hummingbird Spgs.(A) Magic Mountain #Pole Creek R. S. Red Point (A) Shoshone Basin Wilson Creek (A) BRUNEAU RIVER Bear Creek (A) Hummingbird Spgs.(A) Pole Creek Rgr. Sta. #Seventy-six Creek (A)	15H1 14G5 14G4 15H13 15H15 14G2 15H14 15H18 14G6 15G2	7800 7000 6900 8800 8945 6700 8330 7940 5740 7500 7800 8945 8330 7100	2/3 2/3 1/29 2/3 1/29 1/30 2/3 1/31 2/3 2/3 1/30 2/3	66 35 57 39 84 46 49 17 14 42	19.4 10.4 16.6 10.3 25.0 12.3 14.4 5.0 4.7 12.4	10.0 9.2	11.3* 6.5* 13.8* 10.3* 11.1* 10.8* 3.1* 11.3* 11.1* 10.8* 6.1*
OWYHEE RIVER							
Antelope Ridge Battle Creek (A) #Bear Creek (A) Bull Basin (A) Hyde Pasture (A) Red Canyon (A) #Seventy-six Cr.(A) South Mountain Succor Creek (A) Triangle (A) Vaught Ranch (A)	16G6 16G9 15H1 16G10 16G5 16G11 15H3 16G1 16F6 16G4 16G42	5900 5700 7800 5600 5800 6650 7100 6340 6100 5150 5950	1/28 2/1 2/3 2/1 2/1 2/3 2/3 2/4 2/1 2/1 2/1	43 18 66 10 35 38 49 52 17 10 21	12.4 5.0 19.4 2.6 9.8 10.6 14.3 18.2 4.8 2.6 5.9	2.8 0.6 10.0 T 1.6 1.2 3.1 4.2 1.4 T	3.4* 2.8* 11.3* 0.9* 3.8* 4.2* 6.1* 6.6 4.4* 0.8*

SOIL MOISTURE		PROFILE	(Inches)		SOIL MOISTU	RE (Inches)	
STATION NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
RAFT RIVER							
Conner Pass Howell Canyon Sublett	5700 8000 6000	36 48 36	9.8 11.5 7.0	1/29 1/29 1/28	8.3 7.2 7.3	4.9 4.0	8.0 4.7 5.6
GOOSE CREEK							
Badger Gulch	6660	36	7.0	1/30	5.8	5.2	5.9
SALMON FALLS CREEK							•
Deadline Patrick Ranch Pole Creek R. S.	6900 5720 8330	36 36 48	7.4 7.7 9.7	1/30 1/30 1/30	7.2 6.9 6.2	5.9 4.1 4.5	5.9 4.4 5.1
BRUNEAU RIVER			-				
Bear Creek	7800	72	16.9	11/27	14.9 ^d	7.7 ^j	7.9*
OWYHEE RIVER							
Mud Flat Triangle	5500 5150	48 48	12.8 16.2	9/27 9/27	10.8* 13.4*		12.2
* Fall Measurement d December Measurement j January Measurement							

UPPER SNAKE RIVER BASIN



INDEX to SNOW COURSES

N∪.	g	TATE NAME	SEC.	01	LONG.	ELEV.	Nú. S	TATE	NAME		WP. RGE		ELEV.
	U]	PPER SNAKE F		BA	ASIN		10F21a 10F22	Wy Wy	TETON RIVER Darby Canyon Freds Mountain	28 12	43n 44n	118W 118W	8250 8000
		SNAKE RIVER - WY	OMING				11F2M	I	Pine Creek Pass	24	3N	44E	6750
10G4	Wy	Afton Ranger Station	30	32N	118W	6200	11F1M	I	State Line	32	3N	46E	6400
10F1 10E8	Wy Wy	Arizona Aster Creek	3 44 ⁰ 17'		115W 110° 38'	6850 7700	10F13M	Wy	Teton Pass	24	41N	118W	8500
10F2	Wy	Base Camp	20	46N	113W	6900			CAMAS - BEAVER (CREEK			
10F7 10G2A	Wy Wy	Blackrock Blind Bull	4 6	44N 34N	111W 115W	8600 8750	11E11	I	Blue Ledge Mine	27	13N	38E	6700
10G2A 10F14	Wv	Bryan Flat	9	38N	115W	6250	12E3	I	Camp Creek	21	13N	36E	6800
10G7	Wy	CCC Camp	9	29N	118W	7500	11E12	Ι	Kilgore	6	12N	39E	6200
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500							
10E10	·Wy	Coulter Creek	44° 09'	0.714	110° 33'	7600			MEDICINE LODGE	CREEK			
10F17MP 10F6	Wy	East Rim Divide #2 Four Mile Meadows	32 35	37N 45N	111W 112W	7950 7770	12E4	I	Irving Creek	20	13N	33E	7035
10F6 10E13S	Wy Wy	Glade Creek	12	48N	116W	7200	12E5	I	Webber Creek	23	12N	32E	6700
10F18	Wy	Greys Boundary	33	37N	118W	5800							
10F19	Wy	Gros Ventre Summit	36	40 N	111W	8750			WILLOW CREEK				
10G3	Wy	Grover Park Divide	27	33N	118W	7500	11F10	I	Aspen Grove	35	2 N	41E	6600
10E14	Wy	Huckleberry Divide	32	48N	115W	7300	11F3	Ι	Birch Creek	36	2 N	41E	6800
10E9P 10F4MP	Wy	Lewis Lake Divide Moran	44 ⁰ 13' 8 & 17	45N	110° 40' 114W	7900 6800	11F8	I	Bone	29	_ 1s	40E	6200
10F4MP	Wy Wy	Moran Bay	0 & 17 14	45N	116W	6800	11F4 11F9	I I	Ozone Sheep Mountain I	14 33	1N	39E	5800
10G6	Wv	Poison Meadows	29	30N	116W	8500	11F11	Ī	Sheep Mountain II	33	2S 2S	41E 41E	6450 6510
10G8P	Wy	Salt River Summit	32	29N	118W	7900	11F5	Ī	Tex Creek	6	1S	41E	6700
10E12MP	Wy	Snake River Station	9	48N	115W	6780				_			0,00
10F20M	Wy	Snow King Mountain #3	4	40N	117W	7600			SAND CREEK				
10E7 10F9MP	Wy	Thumb Divide	44° 221 29	44 N	110° 35'	7900 9600	11F6	I	Henry Creek	7	18	39E	5650
10F9FF 10F5	Wy Wy	Togwotee Pass Turpin Meadows	14	45N	110W 112W	6930	11F7	ī	Taylor Mountain	19	15	39E	6500
10F3	Wy	Young's Ranch	26	34N	116W	6530			,			37-	
	,								BLACKFOOT RIVER				
		HENRYS FORK RIVE	R				11G3	I	Austin Brothers Ranch	28	7S	43E	6450
11E9	I	Big Springs	34	14N	44 E	6500	11G2M	Ι	China Hat	17	7 S	42E	6300
11E18	I	Black Canyon	11	13N	45E	7850	11G5P	I	Slug Creek Divide	15	105	44E	7225
11E19	I	Black Moose	33	14N	45E	8125	11G1M	Ι	Somsen Ranch	25	5 S	43E	7000
10E15	Wy	Grassy Lake	6	48N	117W	7230			PORTNEUF RIVER				
11E10M	I	Island Park	29	13N	43E	6315 7650							
11E16 11E14	I I	Latham Springs Lucky Dog	9 2	13N 13N	45E 45E	6900	11G25	I	Cove	21	9S	39E	5525
11E15	I	Old Road	12	13N	44E	7250	12G5	I	Dempsey Creek	17	10 S 8 S	38E 38E	6280
11E17	Ī	Poacher's Cabin	11	13N	45E	8000	12G6M 12G1	I I	Lower Pebble Mink Creek	7 33	83 7S	38E 34E	5800 6300
11E32	I	Sawtelle Mountain	7	14N	43E	8715	11G24	I	Moser	20	8 S	39E	5950
11E34	I	Targhee Pass	32	16N	44E	7000	11G23	Ī	North Bancroft #1	15	88	39E	5460
11E8M	I	Valley View	7	15N	44 E	6500	11G22	Ī	North Bancroft #2	27	7 S	39E	5430
					•		12G2M	I	Pebble Creek	34	7 S	37E	6550

LEGEND

Numbering System (example)

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10J7p	STORAGE PRECIPITATION GAGE ONLY.

SNOW			CUR	RENT INFOR	MATION	PAST R	ECORD
DRAINAGE BASIN and SNOW	COURSE		DATE OF	SNOW DEPTH	WATER CONTENT	WATER CONT	ENT (Inches)
NAME	NO.	ELEVATION	SURVEY	(Inches)	(inches)	LAST YEAR	AVERAGE 0

	UPP	ER SNAK	E RIVER	BASIN			
CAMAS-BEAVER CREEKS							
Camp Creek Kilgore	12E3 11E12	68 00 62 00	1/27 2/1	55 51	14.5 14.8	8.0 8.5	6.3 6.2
MEDICINE LODGE CREEK							
Irving Creek Webber Creek	12E4 12E5	7035 6700	1/28 1/29	37 44	6.8 7.8	4.4 4.8	3.5* 3.2*
HENRYS FORK RIVER							
Big Springs Black Canyon Black Moose Grassy Lake Island Park Latham Springs Lucky Dog Old Road Poacher's Cabin Targhee Pass Valley View TETON RIVER Freds Mountain Pine Creek Pass State Line Teton Pass	11E9 11E18 11E19 10E15 11E10 11E16 11E14 11E15 11E17 11E34 11E8	6500 7850 8125 7230 6315 7650 6900 7250 8000 7000 6500	1/29 1/29 1/29 1/29 1/30 1/29 1/29 1/29 1/30 1/30 2/5 1/31 1/31	69 106 122 84 64 104 89 95 98 79 75	21.3 30.4 39.0 27.6 19.4 30.3 25.4 28.0 29.8 20.7 22.4	12.1 20.4 26.2 22.4 8.9 20.2 16.5 18.2 20.8 13.6	13.1 21.9 10.6 10.3
WILLOW CREEK	IOFIS	8,500	1/31	120	32.0	24.0	17.0
Aspen Grove Birch Creek Bone Ozone Sheep Mountain II Tex Creek	11F10 11F3 11F8 11F4 11F11 11F5	6600 6800 6200 5800 6510 6700	1/28 1/28 2/1 1/31 2/2 1/30	38 28 35 T 59 32	9.5 6.9 8.3 T 14.9	7.5 5.7 5.5 2.2 8.1 6.2	
SAND CREEK							
Henry Creek Taylor Mountain	11F6 11F7	56 50 6 500	1/29 1/31	8 31	2.1	5.2 6.1	

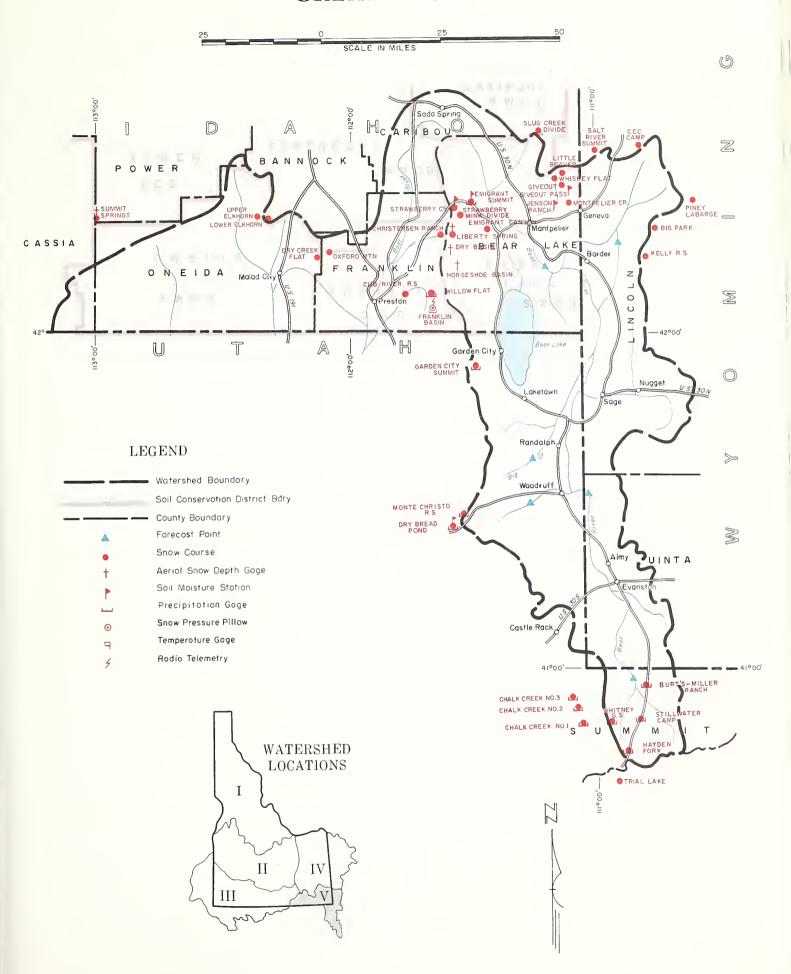
⁽b) 1953-67, 15 year period. *Not located directly on this drainage. *Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW				CURRENT INFORMATION PA				
DRAINAGE BASIN and SNOW COURSE		DATE OF	SNOW DEPTH	WATER CONTENT	WATER CONTENT (Inches)			
NAME	NO.	ELEVATION	SURVEY	(Inches)	(Inches)	LAST YEAR	AVERAGE 6	
BLACKFOOT RIVER								
Austin Bros. Ranch	11G3	6450	1/30	25	7.0	6.0	5.1*	
China Hat	11G2	6300	1/31	14	4.4	4.8	4.2*	
Slug Creek Divide	11G5	7225	1/27	47	12.5	7.6	9.9*	
Somsen Ranch	11G1	7000	1/30	46	12.1	8.3	7.5*	
PORTNEUF RIVER								
Cove	11G25	5525	1/29	15	3.1	3.9		
Dempsey Creek	12G5	6280	1/30	34	9.4	7.2	6.5*	
Lower Pebble	12 G 6	5800	1/29	43	14.0	6.5		
Mink Creek	12G1	6300	1/31	50	14.8	7.4	8.9*	
Moser	11G24	5950	1/29	25	6.2	4.5	-	
North Bancroft #1	11G23	5460	2/2	6	2.0	5.4	** ***	
North Bancroft #2	11G22	5430	2/2	5	0.9	3.0		
Pebble Creek	12G2	6550	1/29	46	14.4	7.8	8.6*	

SOIL MOISTURE		PROFILE	(Inches)	SOIL MOISTURE (Inches)				
STATION		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO	
NAME	ELEVATION				TEAR	TEAR		
HENRYS FORK RIVER								
Island Park Valley View	6315 6500	48 48	9.9 13.3	1/30 1/30	9.2 9.4	8.5 5.0	8.2 4.5	
TETON RIVER								
Pine Creek Pass State Line Teton Pass	6750 6400 8500	48 48 48	13.3 14.8 10.5	1/2 1/2 1/2	13.2 ^j 13.0 ^j 8.1 ^j	13.2	5.3 10.2 8.5	
PORTNEUF RIVER								
Lower Dempsey Lower Pebble Pebble Creek * Fall Measurement j January Measurement	5210 5800 6550	48 36 48	18.7 7.6 7.2	1/30 1/29 1/29	18.8 8.5 6.4	18.3 6.9 4.0	16.1* 5.8 3.4	

⁽b) 1953-67, 15 year period. * Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

GREAT BASIN



INDEX to SNOW COURSES

NO. STATE NAME

SEC. TWP. RGE. ELEV.

GREAT BASIN

BEAR RIVER

		· · · - ·				
10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8 N	4 E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3 N	10 E	7900
10J7P	Ü	Hayden Fork	1	1s	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	ט	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	' 114W	8820
10J17P	Ü	Stillwater Camp	32	2 N	10E	8550
10J28P	ū	Whitney G. S.	4	1N	9E	9300
103201	U	will they G. S.	4	114	9E	9300
		MONTPELIER CREEK				
11G16	I	Giveout	35	118	45E	6840
11G17m	ī	Giveout Pass	2°	113 12S	45E	7025
11G17m	I	Jenson Ranch	_		45E	
	I		15	12S		6580
11G20	I	Little Beaver	26	118	45E	6970
11G18		Montpelier Creek	22	12S	45E	6570
11G21	Ι	Whiskey Flat	26	118	45E	6985
		MINK CREEK				
11G11	I	Christensen Ranch	27	138	41E	5600
11G14a	I	Dry Basin	30	138	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15a	Ī	Horseshoe Basin	31	138	42E	8000
11G13A	Ī	Liberty Spring	7	138	42E	8600
11G9M	ī	Strawberry Creek	9	138	41E	5800
11G10	Î	Strawberry Mink Divide	14	138	41E	6800
11010	1	Strawberry Films Divide	14	133	416	0000
		CUB RIVER				
11G12	I	Cub River Ranger Station	5	158	41E	5400
11G8S	Ī	Franklin Basin	1	16S	41E	8 0 00
11G4P	Ī	Willow Flat	2	158	41E	6100
11041,	-	WIIIOW LIAC	-	155	412	0100
		MALAD RIVER				
12 G 4	I	Dry Creek Flat	31	138	37E	6350
12G11	Ī	Lower Elkhorn	30	128	36E	6850
12G11	Ī	Oxford Mountain	32	138	37E	6800
12G3 12G10	I	Upper Elkhorn	25		37E	7100
12010	T	opper Ermorn	23	128	30E	/100

LEGEND

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SNOW			CUF	RENT INFOR	MATION	PAST R	ECORD
DRAINAGE BASIN and SNOW	COURSE		DATE OF	SNOW DEPTH	WATER	WATER CONT	ENT (Inches)
NAME	NO.	ELEVATION	SURVEY	(Inches)	CONTENT (Inches)	LAST YEAR	AVERAGE 6

GREAT BASIN										
BEAR RIVER										
Emigrant Summit Emigration Canyon	11G6 11G7			1/27 1/27	71 28	20.4	13.8 7.2	14.2* 6.4*		
Montpelier Creek										
Giveout Little Beaver Lower Home Canyon Montpelier Creek Upper Home Canyon Whiskey Flat	11G16 11G20 11G27 11G18 11G26 11G21	6. 7. 6. 8.	970 1 500 1 570 1 500 1	1/29 1/29 1/28 1/29 1/28	35 44 47 23 68 29	8.8 11.6 11.4 6.6 18.4 7.8	4.7 6.9 4.2 3.3	7.7* 9.8* 5.3* 6.2*		
Mink Creek										
Christensen Ranch #Emigrant Summit Strawberry Creek Strawberry Mink Divid	11G11 11G6 11G9 e11G10	7 3	350 1 300 1	/28 /27 /28 /28	21 71 26 51	5.2 20.4 6.9 15.4	7.1 13.8 8.4 11.8	5.6* 14.2* 6.9* 13.0*		
Cub River										
Cub River R. S. Willow Flat	11G12 11G4	_		/29 /29	22 41	4.7 10.2	7.6 9.0	5.7 * 9.4 *		
MALAD RIVER										
Dry Creek Flat Lower Elkhorn Oxford Mountain Upper Elkhorn	12G4 12G11 12G3 12G10	68 68	50 1 00 1	/31 /30 /31 /30	23 54 34 67	5.6 16.4 8.6 17.0	4.1 6.8 5.4 7.6	4.5* 5.6*		
SOIL MOISTURE			PROFILE	(Inches)		_	STURE (Inches)	2 V5422		
STATION		1	DEPTH	CAPACITY	DATE	THIS	LAST	2 YEARS		

SOIL MOISTURE	PROFILE (Inches)		SOIL MOISTURE (Inches)				
STATION		DEPTH	CAPACITY	DATE	THIS	LAST	2 YEARS
NAME	ELEVATION				YEAR	YEAR	AG0
BEAR RIVER							
Emigrant Summit Strawberry Creek	7350 5800	36 48	8.2	12/26 1/27	4.1 ^d 12.4	2.5 4.6	2.6 7.2
Montpelier Creek							
Giveout Pass	7025	36	9.4	12/26	4.0 ^d	2.5	2.5
Jenson Ranch	6580	48	18.7	1/29	8.2	6.2	6.2
d December Measurement							

⁽b) 1953-67, 15 year period. *Not located directly on this drainage. *Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

- U. S. Army Engineers
- U. S. Department of Agriculture
 Forest Service
 Agricultural Research Service
- U. S. Department of Commerce Environmental Sciences Service Administration, Weather Bureau
- U. S. Department of the Interior
 Bonneville Power Administration
 Bureau of Reclamation
 Fish and Wildlife Service
 Water Resources Division, Geological Survey
 Indian Service
 National Park Service
 Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company Washington Water Power Company Idaho Power Company Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amaigamated Sugar Company

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE P.O. BOX 38

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